BRUHATH BANGALORE MAHANAGARA PALIKE ,DASRAHALLI ZONE

Office Of The Executive Engineer, Dasarahalli Division

SCHEDULE-B

NAME OF THE WORK : Construction of General Public Toilet in Ward NO.13 Mallasandra Shettyhalli Sub Division

Sl No	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
1	2	3	4	5	6
1	Earth work excavation for foundation of building water sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of colds complete as per specifications	Cum	95.73	484.92	Rupees Four Hundred Eighty Four And Paise Ninety Two Only
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	20.23	5698.60	Rupees Five Thousand Six Hundred Ninety Eight And Paise Sixty Only
3	Providing and constructing granite /trap/ baslat size stone masonry in foundation with cement mortar 1:6, stones hammerd dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications	Cum	132.16	4983.92	Rupees Four Thousand Nine Hundred Eighty Three And Paise Ninety Two Only
4	Providing ruled pointing to coursed stone masonry with cement mortar 1:3 20mm deep, after raking joints to depth of 20mm necely lining, including cost of materials, labour, curing complete as per specifications	Sqm	24.55	157.49	Rupees One Hundred Fifty Seven And Paise Forty Nine Only
5	Filling avaialble excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification	Cum	47.87	217.08	Rupees Two Hundred Seventeen And Paise Eight Only

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Sl No	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
1	2	3	4	5	6
6	Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density)	Cum	196.57	351.00	Rupees Three Hundred Fifty One Only
7	Providing and laying in position reinforced cement concrete cum of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super piasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.	Cum	33.67	6666.26	Rupees Six Thousand Six Hundred Sixty Six And Paise Twenty Six Only
8	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500	Tonne	3.28	76643.28	Rupees Seventy Six Thousand Six Hundred Forty Three And Paise Twenty Eight Only
9	Providing and removing centering shuttering strutting propping etc., and removal of form work for sides and soffits of beams beam houchings cantilever girders bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specification	Sqm	89.75	315.36	Rupees Three Hundred Fifteen And Paise Thirty Six Only
10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs,landing, balconies and likes thickness upto 200mm including cost of materials, labour complete as per specification	Sqm	56.58	475.20	Rupees Four Hundred Seventy Five And Paise Twenty Only

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Sl No	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
1	2	3	4	5	6
11	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/rrim2 confirming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of ail materials labour charges, scaffolding, curing, hirecharges of machineries etc., complete as per specifications. KBS No.54,17400x150x200mm	Sqm	135.69	1000.90	Rupees One Thousand And Paise Ninety Only
12	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering: providing and removing scaffolding, including cost of materials labour curing complete as per specifications	Sqm	185.32	301.80	Rupees Three Hundred One And Paise Eighty Only
13	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification .	Sqm	49.36	256.28	Rupees Two Hundred Fifty Six And Paise Twenty Eight Only
14	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications	Sqm	152.48	316.25	Rupees Three Hundred Sixteen And Paise Twenty Five Only
15	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications,	Sqm	41.97	34.56	Rupees Thirty Four And Paise Fifty Six Only
16	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer.	Sqm	41.97	97.20	Rupees Ninety Seven And Paise Twenty Only
17	Extra for providing and applying every subsequent coat of painting with plastic emulsion paint of approved brand and shade for Item no.15-15.1 and 15-15.3 cost of materials, labour, complete as per specifications.	Sqm	41.97	39.96	Rupees Thirty Nine And Paise Ninety Six Only

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specification as embodied in the agreement.

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Sl No	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
1	2	3	4	5	6
18	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications-do with primer	Sqm	141.27	110.16	Rupees One Hundred Ten And Paise Sixteen Only
19	Extra for providing and applying every subsequent coat of waterproofing cement paint of approved brand and shade for Item no.15-16.1 cost of materials, labour, complete as per specifications.	Sqm	141.27	36.72	Rupees Thirty Six And Paise Seventy Two Only
20	Providing and fixing PVC Hollow Door Frame of the size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet, mitre cut at two corners and joined with 2 No.s of 150mm long brackets of 15 x 15mm M.S Square tube. The two vertical door profiles are to be reinforced with 19x19mm M.S. Square tube of 19 guage, EPDM rubber gasket weather seal to be provided through out the frame. The door screws through the frame by using PVC fasteners. A minimum of 4 Nos. of screws to be provided for each vertical member & minimum 2 Nos. for horizontal member.	Mtr	39.20	388.80	Rupees Three Hundred Eighty Eight And Paise Eighty Only
21	"SOLID PANEL PRELAM PVC DOOR SHUTTER" Providing and fixing 30MM thick factory made rigid foam with both side Prelam Panelled Door Shutters made from M.S. tube of 19 x 19mm, 19 gauge for styles and 15 x 15mm for top & bottom rails, covered with heat moulded Prelaminated PVC 'C' Channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S Frams, Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges.	Sqm	9.33	4045.68	Rupees Four Thousand Forty Five And Paise Sixty Eight Only

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Sl No	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
1	2	3	4	5	6
22	Providing and fixing M.S. grill work for windows and ventilator weighing 21kg/Sqm using M.S. flats, or M.S square rods or combination of M.S. flats and steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures labour and HOM of machinery specifications	Kg	89.04	102.60	Rupees One Hundred Two And Paise Sixty Only
23	Providing and fixing in position collapsible steel shutters Sqm with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10 cms. c to c applying a priming coat of red lead paint, cost of materials, labour, HOM of machinery complete as per specifications, size of gate 2.4mx1.4m Specification No. KBS 7.7 / 7.12	Sqm	11.27	5626.80	Rupees Five Thousand Six Hundred Twenty Six And Paise Eighty Only
24	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 900mm	Sqm	27.78	2603.72	Rupees Two Thousand Six Hundred Three And Paise Seventy Two Only
25	Providing and fixing colour glazed tiles of size 300mmx450mm for walls with borders of size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with matching colour pigment with necessary curing, cleaning including providing and removing scaffolding wherever necessary etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment, etc., complete as per specification.	Sqm	174.22	1120.85	Rupees One Thousand One Hundred Twenty And Paise Eighty Five Only

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Signature Of The Contractor

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	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
1	2	3	4	5	6
26	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies terraces etc., consisting of following applications a) applying and grouting a slurry coat of neat cement using 2.75 kg per sqm of cement admixed with proprietary water proofing compound confirming to IS 2645 over the RCC slab after cleaning the surface before treatment b)laying cement concrete using broken brick bats 25mm to 100mmsize with 50% of cement mortar 1:5 admix with propreatory water proofing compound confirming IS 2645 over 20mm thick layer of cement mortar 1:5 admix with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs c)after two days of proper curing applying a second coat of cement slurry admix with preprietoray water proofing compound d) finishing the surface with 20mm joint less cement mortar of mix 1:4 admix with preprietary water proofing compond wall finally finishing the surface with travel and neat cement slurry and making of 300 x 300 mm square e the whole terrace so finished shall be flooded with water for a minimum period of two weeks curing and final test including cost of materials labour complete as per specifications	Sqm	56.58	1099.52	Rupees One Thousand Ninety Nine And Paise Fifty Two Only
27	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 50mm nominal OD pipes.	Mtr	55.00	502.20	Rupees Five Hundred Two And Paise Twenty Only
28	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes	Mtr	33.00	316.44	Rupees Three Hundred Sixteen And Paise Forty Four Only

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	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
1	2	3	4	5	6
29	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 110mm outer dia	Mtr	36.50	654.48	Rupees Six Hundred Fifty Four And Paise Forty Eight Only
30	Providing and laying in position to required level or slope 230mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications.	Mtr	30.00	578.88	Rupees Five Hundred Seventy Eight And Paise Eighty Eight Only
31	Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450mm	Nos	3.00	5912.75	Rupees Five Thousand Nine Hundred Twelve And Paise Seventy Five Only
32	Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Each	12.00	152.28	Rupees One Hundred Fifty Two And Paise Twenty Eight Only
33	providing and fixing in position brass gate valve with C.I. Wheel of approved quality (Screwed end) 20mm nominal bore including cost of all materials labour and HOM of Equipments with all lead complete as per specificatins	Each	7.00	362.88	Rupees Three Hundred Sixty Two And Paise Eighty Eight Only
34	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. - for 32mm dia	Each	7.00	129.60	Rupees One Hundred Twenty Nine And Paise Sixty Only

Signature of the Bidder/Contractor

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Dasarahalli Division, Bangalore-560057

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	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
	2	3	4	5	6
35	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.	Each	11.00	162.00	Rupees One Hundred Sixty Two Only
36	Providing and fixing on wall surface 4.0kg?Sq.cm H.D.P.E. rain down water pipes 90mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specification	Mtr	9.00	422.28	Rupees Four Hundred Twenty Two And Paise Twenty Eight Only
37	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Pan	2.00	5352.48	Rupees Five Thousand Three Hundred Fifty Two And Paise Forty Eight Only
38	Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Unit	5.00	1437.48	Rupees One Thousand Four Hundred Thirty Seven And Paise Forty Eight Only
39	Providing and fixing white vitreaus china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litre PVC automatic flushing cistren, C.I./M.S bracket, standard flush pipe and c.P. brass spreaders with brass union and G.I.Clamp Complete painting of fitting and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specification	Unit	4.00	3317.76	Rupees Three Thousand Three Hundred Seventeen And Paise Seventy Six Only

Signature Of The Contractor

EXECUTIVE ENGINEER-4
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BENGALURU-560 010

Executive Engineer

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Dasarahalli Division, Bangalore-560057

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	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
	2	3	4	5	6
	Providing and fixing white vitreous china clay flat back wash basin size 630x450mm with a single of 15mm C.P. brass pillar taps with C.I. /M.S. brackets 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cuttings and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications (P.No. 83, I.No. 12.24 of PWD SR 2018-19)	Unit	4.00	3400.92	Rupees Three Thousand Four Hundred And Paise Ninety Two Only
41	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity)	Nos	2.00	7374.24	Rupees Seven Thousand Three Hundred Seventy Four And Paise Twenty Four Only
42	Supplying heavy gauge PVC conduit pipe .....dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.19/20mm dia 2mm thick	Mtr	60.00	50.00	Rupees Fifty Only
43	Supplying heavy gauge PVC Conduit Pipe ....dia mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.25mm dia 2mm thick	Mtr	8.00	54.00	Rupees Fifty Four Only
44	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall. 8Way	Nos	4.00	145.00	Rupees One Hundred Forty Five Only
45	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.8 Module	Nos	4.00	200.00	Rupees Two Hundred Only

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BENGALURU-560 010

Executive Engineer
Dasarahalli Division

EXECUTIVE ENGINEER
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Dasarahalli Division, Bangalore-560057

Assistant Engineer

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	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
	2	3	4	5	6
46	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps one way Switch	Each	20.00	70.00	Rupees Seventy Only
47	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps 3way socket	Each	2.00	105.00	Rupees One Hundred Five Only
48	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.Short point upto 3Mtr from tapping point to out let via switch box	Points	8.00	160.00	Rupees One Hundred Sixty Only
49	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments				Rupees Nil
	1.5 sqmm	Mtr	70.00	20.50	Rupees Twenty And Paise Fifty Only
	2.5sqmm	Mtr	150.00	32.00	Rupees Thirty Two Only
	4sqmm	Mtr	12.00	45.00	Rupees Forty Five Only
50	Supplying and fixing regular MCB distribution boards on wall/ wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door 8Way SP &N	Nos	2.00	1450.00	Rupees One Thousand Four Hundred Fifty Only

Signature Of The Contractor

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

EXECUTIVE ENGINEER
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Dasarahalli Division, Bangalore-560057

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Sl No	Description Of Work	Unit	Qty	Rate To Be Sanctioned	
				In Figures (Rs)	In Words (Rs)
1	2	3	4	5	6
51	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 Amps DP	Nos	2.00	909.00	Rupees Nine Hundred Nine Only
52	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders	Nos	19.00	110.00	Rupees One Hundred Ten Only
53	Supplying & Fixing retrofit type -PL- LED lamp..... W LED Linear source with CCT 6500 degree K, CRI> 70%. Efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic diver integrated in the system, with PF > 0.95, Power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, life as per LM 79. The operating input voltage should be between 130 to 275 volts. Tested by NABL/CPBI accredited laboratory with 2years Warranty against any manufacturing defect working under standard electrical.18-20 Watts	Nos	19.00	425.00	Rupees Four Hundred Twenty Five Only
54	Rectangulur Shape Mirror of Size 1500x450mm with Plastic Moulded Frame	Each	2.00	1006.78	Rupees One Thousand Six And Paise Seventy Eight Only

Signature of the Contractor

EXECUTIVE ENGINEER-4
ELEC. O&M DIVISION
BENGALURU-560 010

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